GE
Lighting

office

old office new tricks

GE recasts office lighting to star energy-efficient LED luminaires

Sleek and stylish recessed fixtures lend a clean and modern look

THE SITUATION

Nearly 4,900 sq. ft. of office space was remodeled in Building 328 at Nela Park headquarters. The goal? Create a newly inspired, more energy-efficient, all-LED work environment.

THE SOLUTION

Twin-tube fluorescent fixtures were changed to GE's Lumination™ ET22 LED Luminaires, improving lighting energy efficiency by 78%. Now, Building 328 uses nearly 23,700 fewer kWhs of electricity a year—a $2,600 savings based on 3,130 hours of operation and a $0.11 kWh rate.

Light uniformity was maximized across the office by optimizing the spacing of the 2x2' LED luminaires. Thanks to the improved distribution of light, 45 fixtures were eliminated entirely (from 96 fluorescent to 51 LED). Enhanced vertical illuminance and wall uniformity also reduces eye strain for occupants, who note the area appears "more spacious" since the switch.

Like many offices today the space was overlit. By following IES recommendations we were able to light the area to 30 footcandles to allow for proper human performance. It's a beautifully efficient light to live and work under."

-Jason Brown, PE, CEM, Certified Lighting (CL) Professional

Dimming controls and a daylight harvesting system were added to capture even greater energy savings while maintenance, meanwhile, has been all but eliminated. Rated for up to four times the life of the fluorescent fixtures they replaced, the LED luminaires are without customary lamps and ballasts that require routine change out.

For more information about the GE Lighting products used in this project, visit **gelighting.com.**

OPERATING IMPACT

- $2,600 annual lighting cost savings
- Improved lighting energy efficiency by 78%

ENVIRONMENTAL IMPACT

23,700 fewer kWhs used:
= 3 cars off the road
= 4 acres of trees planted

imagination at work

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